

For more Information
please call

1-800-Belden1



Description:

RG-8X type, 15 AWG solid .057" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	15	Solid	BC - Bare Copper	1.4478

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.81

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 6.096 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Bulk Cable Weight: 59.528 Kg/Km

Max. Recommended Pulling Tension: 329.167 N

Min. Bend Radius (Install)/Minor Axis: 60.960 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 8/X

Flame Test

UL Flame Test: UL1666 Vertical Shaft

CSA Flame Test: FT4

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes - When supported by a messenger

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/m)

0.19686

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

75.463

Nominal Velocity of Propagation:

VP (%)

86

Nominal Delay:

Delay (ns/m)

3.87158

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

10.4992

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

9.1868

Maximum VSWR:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
		5	6000	1.25:1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
30	4.2653
50	5.2496
150	9.1868
220	11.1554
450	16.0769
900	22.967
1500	29.8571
1800	33.1381
2000	35.1067
2500	39.372
3000	43.9654
3500	47.9026

4500	54.7927
5800	63.9795
6000	64.9638

Max. Power Rating:

Freq. (MHz)	Rating (W)
30	1526
50	1186
150	673
220	556
450	382
900	286
1500	205
1800	187
2000	177
2500	156
3000	143
3500	132
4500	116
5800	102
6000	100

Max. Operating Voltage - UL:

Voltage
300 V RMS

Sweep Test

Sweep Testing: 100% Sweep tested to 6 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7808R 0101000	305 MT	19.958 KG	BLACK	C	RF240 WIRELESS 50OHM COAXFRPVC
7808R 010500	152 MT	9.752 KG	BLACK	C	RF240 WIRELESS 50OHM COAXFRPVC

Notes:
C = CRATE REEL PUT-UP.

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